

Seprn. membrane prodn. made of polyvinyl alcohol - by forming dope soln. contg. vinyl alcohol polymer into membrane, then passing through aq. soln. contg. crosslinking agent  
C95-129506

**New prodn. of a sepn. membrane made of vinylalcohol polymer comprises:**

- (a) forming a dope soln. contg. vinyl alcohol polymer into a membrane; and
- (b) passing the membrane through an aq. soln. contg. a crosslinking chemical so as to crosslink the polymer through their OH gps. with the crosslinking chemical.

Another prodn. of hollow fibre sepn. membrane made of vinyl alcohol polymer is also claimed, where the dope soln. is spun in a wet or dry process through an outer ring nozzle of a tube-in-orifice spinnerette while a soln. contg. a crosslinking chemical is extruded through the inner tube.

A(8-C1, 11-B15C, 12-S5A, 12-S5L, 12-W11A) F(1-C8A, 1-C8C, 1-D8, 1-E3, 4-E) J(1-C3)

## USE

Used for producing sepn. membranes with improved heat resistance and mechanical strength.

## ADVANTAGE

Sepn. membranes with a constant degree of crosslinking can be produced with higher productivity.

## PREFERRED PROCESS

The hollow fibre membrane after spinning is passed through an aq. soln. contg. a crosslinking chemical.

### EXAMPLE

A dope soln. contg. 15 pts.wt. ethylene-vinyl alcohol copolymer and 85 pts.wt. DMSO was spun with an aq. soln. contg. 1 wt.% glutaraldehyde and 0.5 N H<sub>2</sub>SO<sub>4</sub> into an aq. soln.. The resultant hollow fibres were passed through an aq. soln. contg. 1 wt.% glutaraldehyde and 0.5 N H<sub>2</sub>SO<sub>4</sub>. (JT)  
(8pp056DwgNo.0/0)

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